

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERC United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,443	11/26/2003	Debanjan Mukherjee	M-15287 US	1193
	7590 05/25/2007 N KWOK CHEN & HEII	DLLP	EXAM	INER
2033 GATEWAY PLACE			NGO, CHUONG D	
SUITE 400 SAN JOSE, CA	A 95110		ART UNIT PAPER NUMBER	
, -			2193	
			MAIL DATE	DELIVERY MODE
		•	05/25/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/724,443	MUKHERJEE ET AL.
Office Action Summary	Examiner	Art Unit
	Chuong D. Ngo	2193
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be till will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on <u>06 f</u> 2a) This action is FINAL . 2b) Thi 3) Since this application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) ⊠ Claim(s) <u>1-27</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ⊠ Claim(s) <u>1-27</u> are subject to restriction and/or	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct to be a composed and accomposed are considered. 11) The oath or declaration is objected to by the Examination.	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 	ts have been received. ts have been received in Applicatority documents have been received in (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1)	4) 🔲 Interview Summary	r (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

Application/Control Number: 10/724,443

Art Unit: 2193

DETAILED ACTION

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-9 and 19-27, drawn to a delay element, class 327, subclass 161.
 - II. Claims 10-18, drawn to an equalizer, classified in class 708, subclass 323.
- 2. The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination (II) does not require the particular sequence generator of the subcombination (I) as claimed for patentability because claims to both the combination and subcombination are presented and assumed to be patentable. The omission of the specific details of the delay element in the independent claim 10 of the combination is an evidence that the combination (II) does not rely on the details of the specific subcombination (I), for patentability. In addition, the subcombination (I) clearly has a separate utility as signal delaying. Therefore, the inventions I and II are clearly distinct. There would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art in view of their different classification, and the inventions require a different field of search. Thus, restriction for examination purposes as indicated is proper.

Application/Control Number: 10/724,443

Art Unit: 2193

- 3. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D. Ngo whose telephone number is (571) 272-3731. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chuong D Ngo Primary Examiner Art Unit 2193

05/21/2007